

IN BRIEF

Richard Webb is leaving the IBM T. J. Watson Research Center in Yorktown Heights, New York, to become the Alford S. Ward Chaired Professor of Semiconductor Physics at the University of Maryland and a member of the university's Center for Superconductivity Research.

In October **James Stith** moved from the physics department at the US Military Academy in West Point, New York, to the physics education group in the department of physics at Ohio State University, Columbus. Stith will work with Kenneth G. Wilson on two programs, Project Discovery and Physics by Inquiry.

Lawrence Krauss is now the Ambrose Swasey Professor of Physics and chair of the physics department at Case Western Reserve University. Until last July Krauss was an associate professor in the departments of physics and astronomy at Yale University.

C. Grant Wilson has been named the Rashid Professor of Chemical Engineering and the Collie Welsh Fellow of Chemistry and Biochemistry at the University of Texas, Austin. Wilson formerly worked at the IBM Almaden Research Center in San Jose, California.

The Packard Foundation has announced the names of 20 young scientists and engineers who will receive five-year fellowships worth \$500 000 apiece. The winners include **Raymond Ashoori**, assistant professor of physics at MIT, who has measured the change in electrical charge resulting from the addition of individual electrons to a single quantum dot; **John Badding**, assistant professor of chemistry at Pennsylvania State University, who studies the changes that occur in elements under high pressure; **Jean M. Carlson**, assistant professor of physics at the University of California, Santa Barbara, who is developing a new approach to understanding self-organized criticality and applying it to a range of phenomena; **Bradley F. Chmelka**, assistant professor of chemical and nuclear engineering at the University of California, Santa Barbara, whose research concerns the fabrication and behavior on a molecular level of synthetic materials used in new optical devices and semiconductors; **Norbert F. Scherer**, assistant professor of chemistry at the

University of Pennsylvania, who has elucidated several fundamental chemical and materials problems; **Tycho Sleator**, assistant professor of physics at New York University, who works in atom optics; **Herman L. Verlinde**, assistant professor of physics at Princeton University, who applies sophisticated mathematical techniques to problems of quantum gravity; and **Alan E. Willner**, assistant professor of electrical engineering at the University of Southern California, who is conducting research in optical fiber communications.

Priscilla W. Laws of Dickinson College and **Ronald K. Thorton** of Tufts University have jointly won a \$50 000 Charles A. Dana Award for Pioneering Achievement in Education for "developing an innovative approach to teaching the fundamentals of physics." Their program, called Workshop Physics, "engage[s] students in discovery, abandoning the traditional lecture and laboratory-based approach to physics instruction."

Arthur Ashkin and **Joseph M. Dziedzic**, both retired from AT&T Bell Labs in Holmdel, New Jersey, were awarded the Rank Prize at the Royal Society of Medicine in London on 30 November for creating "optical tweezers . . . which use focused laser light to trap and manipulate virus particles, living cells and other biological entities whilst allowing them to maintain viability."

The 1993 Mishima Award of the American Nuclear Society was given to **K. Linga Murty**, a professor in the departments of nuclear engineering and of materials science and engineering at North Carolina State University. He was cited for his outstanding contributions to the understanding of zirconium, titanium and magnesium and their alloys, the prediction of in-reactor cladding performance, and the understanding of radiation effects on alloys and of radiation-induced defects and impurities.

Fernando Flores won the first Iberdrola Science and Technology Prize, which is given by the Iberdrola Electric Power Utility, Spain, to acknowledge the achievements of Spanish researchers. Flores, a professor at the Madrid Autonomous University and director of the Nicolás Cabrera Institute of Material Science, was cited for contributions to "semiconductor interfaces, tunnel microscopy, surface states, liquid metals and the interaction between charges and solids."

The Nuclear and Plasma Sciences Society of the Institute of Electrical and Electronics Engineers has awarded its 1993 Merit Award to **Akira Hirose** for "pioneering contributions to the understanding of linear waves, instabilities and turbulent heating in plasmas and confinement studies of tokamaks." Hirose is a professor in the department of physics and engineering physics at the University of Saskatchewan in Canada.

OBITUARIES

Bernard T. Feld

Bernard T. Feld, emeritus professor of physics at MIT, died on 19 February 1993, after a few weeks of acute illness, in the city of Brooklyn, not far from where he was born. His entire career is entwined both in symbol and in substance with this half-century's fateful choice between catastrophic war and uneasy peace.

With an undergraduate degree in physics from the City College of New York, Bernie had all the talent and ambition (but none of the money) to enter graduate study at Columbia. The versatile, city-wise student came there to earn his way in part by assisting a brand-new physics professor who had arrived in New York only three weeks or so earlier. The new man was Enrico Fermi, fresh from Rome via the Nobel awards ceremony at Stockholm; the new year was 1939, with a world war in the offing; the new challenge was the fission of uranium, recognized worldwide in mid-January to imply an inordinate release of energy.

To no physicist was the discovery



Bernard T. Feld